<110> Islam Amirul
Hazra Papia

<120> An improved method of detection of target nucleic acid sequence by nucleic acid amplification

<130> 3875.033

<140> US 10/516,361
<141> 2004.11.30

<150> PCT/IN 03/00204
<151> 2003.05.30

<150> 487/MUM/2002 (IN)
<151> 2002.05.31

<160> 31

<210> 1
<211> 20
<212> DNA
<213> Artificial / Unknown Sequence

<220>
<221> primer_bind
<222>
<223> Forward PCR primer for amplification of a target
sequence chosen arbitrarily and made from sequence
IDs 3 &4.

<400> 1
acttaagtta gagcgtttgc   20

<210> 2
<211> 20
<212> DNA
<213> Artificial / Unknown Sequence

<220>
<221> primer_bind
<222>
<223> Reverse PCR primer for amplification of a target
sequence chosen arbitrarily and made from sequence
IDs 3 &4.

<400> 2
tggtagtatg tgatttagtc   20

<210> 3
<211> 40
<212> DNA

<213> Artificial / Unknown Sequence

<220>
<221> misc_difference
<222>
<223> Arbitrarily chosen sequence. Base 27 to 40 are
complementary to basis 31 to 44 of sequence ID 4.
DNA polymerase extention of annealed Sequence IDs 3
& 4 results in the target sequence

<400> 3
tacacttaag ttagagcgtt tgcgcccact acgacggttg   40

<210> 4
<211> 44
<212> DNA
<213> Artificial / Unknown Sequence

<220>
<221> misc_difference
<222>
<223>Arbitrarily chosen sequence. Base 27 to 40 are
complementary to basis 31 to 44 of sequence ID 4.
DNA polymerase extention of annealed Sequence IDs 3
& 4 results in the target sequence

<400> 4
gtttttgtgg tagtatgtga tttagtcatt caaccgtcgt agtg   44

<210> 5
<211> 20
<212> DNA
<213> Artificial / Unknown Sequence

<220>
<221> primer_bind
<222>
<223> Forward PCR primer for amplification of a target
sequence chosen arbitrarily and made from sequence
IDs 3 &4. Base t at base position 18 from 5' end is having fluorophore FAM

<400> 5
acttaagtta gagcgtttgc   20

<210> 6
<211> 19
<212> DNA
<213> Leishmania donovani

<220>

<221> Primer_bind gp63 gene
<222> In base segment 560-1153
<223> Forward PCR primer

<400> 6
acggagcggc tgaaggtgc   19

<210> 7
<211> 27
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> In base segment 560-1153
<223> Hair pin reverse PCR primer (Complementary)

<400> 7
aggtgcatcc acttgtcctg cacctgc   27

<210> 8
<211> 21
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base a at base position 7 from 5'end is base 1094 of gp63 gene
<223> Hair pin forward PCR primer

<400> 8
aggcagatgg cgcctgcctc g   21

<210> 9
<211> 25
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> In base segment 560-1153 of gp63 gene
<223> Hair pin reverse PCR primer (Complementary)

<400> 9
atgcggcgct gtagtacccc gcatc   25

<210> 10
<211> 20
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base 1 from 5'end is base 1114 of gp63 gene
<223> Forward PCR primer

<400> 10
ggggtactac agcgccctga   20

<210> 11
<211> 28
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base g at base position 9 from 5'end is base 1153 of gp63 gene
<223> Hair pin reverse PCR primer (Complementary)

<400> 11
atggccatgt cctggaagat ggccatgg   28

<210> 12
<211> 29
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base g at base position 10 from 5'end is base 1153 of gp63 gene
<223> Hair pin reverse PCR primer (Complementary)

<400> 12
atggccatcg tcctggaaga tggccatgg   29

<210> 13
<211> 20
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base 1 from 5'end is base 1153 of gp63 gene
<223> Reverse PCR primer (Complementary)

<400> 13
gtcctggaag atggccatgg   20

<210> 14
<211> 20
<212> DNA

<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base 1 from 5'end is base 560 of gp63 gene
<223> Forward PCR primer

<400> 14
ctgcacacgg agcggctgaa   20

<210> 15
<211> 20
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base 1 from 5'end is base 1103 of gp63 gene
<223> Reverse PCR primer (Complementary)

<400> 15
ggacgagctc atggcgcctg   20

<210> 16
<211> 20
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> In base segment 560-1153
<223> Reverse PCR primer (Complementary)

<400> 16
gtcctgttca ccttccactg   20

<210> 17
<211> 19
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> In base segment 560-1153
<223> Forward PCR primer

<400> 17
gctcatggcg cctgcctcg   19

<210> 18
<211> 19

<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> In base segment 560-1153
<223> Reverse PCR primer (Complementary)

<400> 18
gcgtgtagta ccccgcatc   19

<210> 19
<211> 20
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind   gp63 gene
<222> Base 1 from 5'end is base 1114 of gp63 gene
<223> Base t at base position 18 from 5'end is having the fluorophore FAM on it. Forward PCR
      primer

<400> 19
ggggtactac agcgccctga   20

<210> 20
<211> 20
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base 1 from 5'end is base 1153 of gp63 gene
<223> Reverse PCR primer(Complementary).Base t at base position 18 from 5'end is
      having fluorophore JOE on it

<400> 20
gtcctggaag atggccatgg   20 .

<210> 21
<211> 18
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base 1 from 5'end is base 1114 of gp63 gene
<223> Forward PCR primer Base t at base position 18 from 5'end is having fluorophore FAM
      on it

<400> 21

ggggtactac agcgccct   18

<210> 22
<211> 29
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind   gp63 gene
<222> Base g at base position 10 from 5'end is base 1153 of gp63 gene
<223> Hair pin reverse PCR primer . DABCYL at base position 1 and fluorophore JOE on
      base t at base position 27 from 5'end.   (Complementary)

<400> 22
atggccatcg tcctggaaga tggccatgg   29

<210> 23
<211> 29
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind   gp63 gene
<222> Base g at base position 10 from 5'end is base 1153 of gp63 gene
<223> Hair pin reverse PCR primer. DABCYL at base position 1 and fluorophore FAM on
      base t at base position 27 from 5'end. (Complementary)

<400> 23
atggccatcg tcctggaaga tggccatgg   29

<210> 24
<211> 19
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> In base segment 560-1153
<223> Forward PCR primer. DABCYL on base t at base position 17 from 5'end.

<400> 24
gctcatggcg cctgcctcg   19

<210> 25
<211> 20
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene

<222> Base 1 from 5'end is base 1153 of gp63 gene
<223> Reverse PCR primer. Rhodamine on base t at base position 18 from 5'end.
(Complementary)

<400> 25
gtcctggaag atggccatgg   20

<210> 26
<211> 20
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base 1 from 5'end is base 1153 of gp63 gene
<223> Reverse PCR primer. Fluorophore JOE on base t at base position 12 from 5'end.
(Complementary)

<400> 26
gtcctggaag atggccatgg   20

<210> 27
<211> 20
<212> DNA
<213> E. Coli k-12

<220>
<221> Primer_bind   ilv y gene
<222> Base a at base position 4 from 5'end is base 3955533
<223> PCR primer for amplification of IS1 element of Tn9
sitting in ilv y locus of E.Coli

<400> 27
tgaattcaat ctcgcaaacg   20

<210> 28
<211> 26
<212> DNA
<213> E. Coli k-12

<220>
<221> Primer_bind   Transposon Tn9, CAT gene
<222> Base c at base position 10 from 5'end is base 1104 of Tn9
<223> PCR primer having a Bam H1 restriction site and 3 base overhang at 5'end for
amplification of IS1 element of Tn9 sitting ilv y locus of E.Coli

<400> 28
atcggatccc aaatgcctga ggccag   26

<210> 29
<211> 20
<212> DNA

<213> E. Coli k-12

<220>
<221> Primer_bind   rpsT gene
<222> Base g at 5'end is base 21303
<223> Forward PCR primer

<400> 29
ggcaatgaaa agccacttct   20

<210> 30
<211> 20
<212> DNA
<213> E. Coli k-12

<220>
<221> Primer_bind   rpsT gene
<222> Base g at 5'end is base 21303
<223> Reverse PCR primer. (Complementary)

<400> 30
ttaaccggcg attgagtacc   20

<210> 31
<211> 20
<212> DNA
<213> E. Coli k-12

<220>
<221> Primer_bind   gene b0024 ORF with unknown function.
<222> Base a at 5'end is base 20848
<223> Reverse PCR primer. (Complementary)

<400> 31
agccttatga cgtgcagctt   20

Statement:

It is hereby declared that the sequence listing does not go beyond the content of the application as filed.